

*P. Huynh*



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/489,760C

DATE: 10/31/2003

TIME: 14:53:27

Input Set : A:\SEQLIST.CRF.txt

Output Set: N:\CRF4\10312003\I489760C.raw

3 <110> APPLICANT: Goulmy, Elsa A.J.M  
 4 Hunt, Donald F  
 5 Engelhard, Victor H  
 7 <120> TITLE OF INVENTION: The HA-1 Antigen  
 9 <130> FILE REFERENCE: 2183-4285US  
 11 <140> CURRENT APPLICATION NUMBER: 09/489,760C  
 12 <141> CURRENT FILING DATE: 2000-01-21  
 14 <150> PRIOR APPLICATION NUMBER: PCT/NL98/00424  
 15 <151> PRIOR FILING DATE: 1998-07-23  
 17 <160> NUMBER OF SEQ ID NOS: 17  
 19 <170> SOFTWARE: PatentIn Ver. 2.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 9  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Artificial sequence  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: obtained from histocompatibility antigen  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: MISC\_FEATURE  
 31 <222> LOCATION: (3)..(3)  
 32 <223> OTHER INFORMATION: Xaa is HISTIDINE OR ARGININE RESIDUE  
 34 <400> SEQUENCE: 1

**ENTERED**

W--> 35 Val Leu Xaa Asp Asp Leu Leu Glu Ala

36 1 5  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 9  
 41 <212> TYPE: PRT  
 42 <213> ORGANISM: Artificial sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: obtained from histocompatibility antigen  
 47 <400> SEQUENCE: 2  
 48 Val Leu His Asp Asp Leu Leu Glu Ala  
 49 1 5  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 9  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Artificial sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: obtained from histocompatibility antigen  
 60 <220> FEATURE:  
 61 <221> NAME/KEY: MISC\_FEATURE  
 62 <222> LOCATION: (2)..(2)  
 63 <223> OTHER INFORMATION: Xaa is ISOLEUCINE OR LEUCINE

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65 <400> SEQUENCE: 3
W--> 66 Tyr Xaa Thr Asp Arg Val Met Thr Val
67 1 5
70 <210> SEQ ID NO: 4
71 <211> LENGTH: 9
72 <212> TYPE: PRT
73 <213> ORGANISM: Artificial sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: obtained from histocompatibility antigen
78 <220> FEATURE:
79 <221> NAME/KEY: MISC_FEATURE
80 <222> LOCATION: (2)..(7)
81 <223> OTHER INFORMATION: Xaa is LEUCINE OR ISOLEUCINE
83 <400> SEQUENCE: 4
W--> 84 Val Xaa His Asp Asp Xaa Xaa Glu Ala
85 1 5
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 9
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: obtained from KIAA0223 partial complementary DNA
96 <400> SEQUENCE: 5
97 Val Leu Arg Asp Asp Leu Leu Glu Ala
98 1 5
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 25
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: synthesized sequence, Reverse primer
109 <400> SEQUENCE: 6
110 gctcctgcat gacgcctctgt ctgca 25
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 24
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: synthesized sequence, Forward primer
121 <400> SEQUENCE: 7
122 gacgtcgtcaggacatctc ccat 24
125 <210> SEQ ID NO: 8
126 <211> LENGTH: 25
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: synthesized sequence, Reverse Primer
133 <400> SEQUENCE: 8
134 gaaggccaca gcaatcgtct ccagg 25

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137 <210> SEQ ID NO: 9
138 <211> LENGTH: 30
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: synthesized sequence, HA-1" allele primer H1
145 <400> SEQUENCE: 9
146 ccttgagaaa cttaggagt gtgtgctgca 30
149 <210> SEQ ID NO: 10
150 <211> LENGTH: 30
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: synthesized sequence, HA-1r allele primer R1
157 <400> SEQUENCE: 10
158 ccttgagaaa cttaggagt gtgtgttgag 30
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 33
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: synthesized sequence, Forward KIAA00223 based PCR primer
169 <400> SEQUENCE: 11
170 ccggcatgga cgtcgtcgag gacatctccc atc 33
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 30
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: synthesized sequence, Reverse KIAA00223 based PCR primer
181 <400> SEQUENCE: 12
182 ctacttcagg ccacagcaat cgtctccagg 30
185 <210> SEQ ID NO: 13
186 <211> LENGTH: 38
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: obtained from HA-1-/- phenotype
193 <400> SEQUENCE: 13
194 gagtgtgtgt tgcgtgacga cctccttgag gcccgccg 38
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 13
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: obtained from HA-1-/- phenotype
205 <400> SEQUENCE: 14
206 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg
207 1 5 10

```

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Input Set : A:\SEQLIST.CRF.txt

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210 <210> SEQ ID NO: 15
211 <211> LENGTH: 38
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: obtained from HA-1+/+ phenotype
218 <400> SEQUENCE: 15
219 gagtgtgtgc tgcattgacga cctccttgag gccgcgcg          38
222 <210> SEQ ID NO: 16
223 <211> LENGTH: 13
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: obtained from HA-1+/+ phenotype
230 <400> SEQUENCE: 16
231 Glu Cys Val Leu His Asp Asp Leu Leu Glu Ala Arg Arg
232 1          5          10
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 10
237 <212> TYPE: PRT
238 <213> ORGANISM: Unknown
240 <220> FEATURE:
241 <223> OTHER INFORMATION: fluorescent peptide that can bind recombinant HLA-A2.1 and
b2microglobulin
243 <400> SEQUENCE: 17
244 Phe Leu Pro Ser Asp Cys Phe Pro Ser Val
245 1          5          10

```

**RAW SEQUENCE LISTING ERROR SUMMARY**  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3  
Seq#:3; Xaa Pos. 2  
Seq#:4; Xaa Pos. 2,6,7

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:17; Line(s) 241

**VERIFICATION SUMMARY**

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Input Set : **A:\SEQLIST.CRF.txt**

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L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0